



COPY OF PAPERS
ORIGINALLY FILED

SEQUENCE LISTING

<110> BML, INC.

<120> Method of Detecting Risk Factor for Onset of Diabetes

<130> PBM37

<140>

<141>

<160> 22

<170> PatentIn Ver. 2.0

<210> 1

<211> 1408

<212> DNA

<213> Hominidae

<220>

<221> CDS

<222> (1)..(900)

<400> 1

aaa cagaagggga ggtgcagttt cagaacccag ccagcctctc 43

tcttgctgcc tagcctcctg cggcctcat cttcgcccag ccaacccgc ctggagccct 103

atg gcc aac tgc gag ttc agc ccg gtg tcc ggg gac aaa ccc tgc tgc 151
Met Ala Asn Cys Glu Phe Ser Pro Val Ser Gly Asp Lys Pro Cys Cys
1 5 10 15

cgg ctc tct agg aga gcc caa ctc tgt ctt ggc gtc agt atc ctg gtc 199
Arg Leu Ser Arg Ala Gln Leu Cys Leu Gly Val Ser Ile Leu Val
20 25 30

ctg atc ctc gtc gtg gtg ctc gcg gtg gtc gtc ccg agg tgg cgc cag 247
Leu Ile Val Val Val Leu Ala Val Val Val Pro Arg Trp Arg Gln
35 40 45

cag tgg agc ggt ccg ggc acc acc aag cgc ttt ccc gag acc gtc ctg 295
Gln Trp Ser Gly Pro Gly Thr Thr Lys Arg Phe Pro Glu Thr Val Leu
50 55 60

gcg cga tgc aag tac act gaa att cat cct gag atg aga cat gta 343
Ala Arg Cys Val Lys Tyr Thr Glu Ile His Pro Glu Met Arg His Val
65 70 75 80

gac tgc caa agt gta tgg gat gct ttc aag ggt gca ttt att tca aaa 391
Asp Cys Gln Ser Val Trp Asp Ala Phe Lys Gly Ala Phe Ile Ser Lys
85 90 95

cat cct tgc aac att act gaa gaa gac tat cag cca cta atg aag ttg		439	
His Pro Cys Asn Ile Thr Glu Glu Asp Tyr Gln Pro Leu Met Lys Leu			
100	105	110	
gga act cag acc gta cct tgc aac aag att ctt ctt tgg agc aga ata		487	
Gly Thr Gln Thr Val Pro Cys Asn Lys Ile Leu Leu Trp Ser Arg Ile			
115	120	125	
aaa gat ctg gcc cat cag ttc aca cag gtc cag cggttgc acc		535	
Lys Asp Leu Ala His Gln Phe Thr Gln Val Gln Arg Asp Met Phe Thr			
130	135	140	
ctg gag gac acg ctg cta ggc tac ctt gct gat gac ctc aca tgg tgt		583	
Leu Glu Asp Thr Leu Leu Gly Tyr Leu Ala Asp Asp Leu Thr Trp Cys			
145	150	155	160
ggt gaa ttc aac act tcc aaa ata aac tat caa tct tgc cca gac tgg		631	
Gly Glu Phe Asn Thr Ser Lys Ile Asn Tyr Gln Ser Cys Pro Asp Trp			
165	170	175	
aga aag gac tgc agc aac aac cct gtt tca gta ttc tgg aaa acg gtt		679	
Arg Lys Asp Cys Ser Asn Asn Pro Val Ser Val Phe Trp Lys Thr Val			
180	185	190	
tcc cgc agg ttt gca gaa gct gcc tgt gat gtg gtc cat gtg atg ctc		727	
Ser Arg Arg Phe Ala Glu Ala Ala Cys Asp Val Val His Val Met Leu			
195	200	205	
aat gga tcc cgc agt aaa atc ttt gac aaa aac agc act ttt ggg agt		775	
Asn Gly Ser Arg Ser Lys Ile Phe Asp Lys Asn Ser Thr Phe Gly Ser			
210	215	220	
gtg gaa gtc cat aat ttg caa cca gag aag gtt cag aca cta gag gcc		823	
Val Glu Val His Asn Leu Gln Pro Glu Lys Val Gln Thr Leu Glu Ala			
225	230	235	240
tgg gtg ata cat ggt gga aga gaa gat tcc aga gac tta tgc cag gat		871	
Trp Val Ile His Gly Gly Arg Glu Asp Ser Arg Asp Leu Cys Gln Asp			
245	250	255	
ccc acc ata aaa gag ctg gaa tcg att ata agc aaa agg aat att caa		919	
Pro Thr Ile Lys Glu Leu Glu Ser Ile Ile Ser Lys Arg Asn Ile Gln			
260	265	270	
ttt tcc tgc aag aat atc tac aga gac aag ttt ctt cag tgt gtg		967	
Phe Ser Cys Lys Asn Ile Tyr Arg Pro Asp Lys Phe Leu Gln Cys Val			
275	280	285	
aaa aat cct gag gat tca tct tgc aca tct gag atc tgagccagtc		1013	
Lys Asn Pro Glu Asp Ser Ser Cys Thr Ser Glu Ile			
290	295	300	
gctgtggttg ttttagctcc ttgactcctt gtgggttatg tcatcataaca tgactcagca	1073		
tacctgctgg tgcagagctg aagattttgg agggtcctcc acaataaggt caatgccaga	1133		

gacggaagcc ttttccccca aagtcttaaa ataaacttata tcatcagcat acctttattg 1193
tgatctatca atagtcaaga aaaattattg tataagatta gaatgaaaat tgtatgttaa 1253
gttacttcac tttaattctc atgtgatcct tttatgttat ttatatattg gtaacatcct 1313
ttctattgaa aaatcaccac accaaacctc tcttattaga acaggcaagt gaagaaaagt 1373
gaatgctcaa gttttcaga aagcattaca tttcc 1408

<210> 2
<211> 300
<212> PRT
<213> Hominidae

<400> 2
Met Ala Asn Cys Glu Phe Ser Pro Val Ser Gly Asp Lys Pro Cys Cys
1 5 10 15
Arg Leu Ser Arg Arg Ala Gln Leu Cys Leu Gly Val Ser Ile Leu Val
20 25 30
Leu Ile Leu Val Val Val Leu Ala Val Val Val Pro Arg Trp Arg Gln
35 40 45
Gln Trp Ser Gly Pro Gly Thr Thr Lys Arg Phe Pro Glu Thr Val Leu
50 55 60
Ala Arg Cys Val Lys Tyr Thr Glu Ile His Pro Glu Met Arg His Val
65 70 75 80
Asp Cys Gln Ser Val Trp Asp Ala Phe Lys Gly Ala Phe Ile Ser Lys
85 90 95
His Pro Cys Asn Ile Thr Glu Glu Asp Tyr Gln Pro Leu Met Lys Leu
100 105 110
Gly Thr Gln Thr Val Pro Cys Asn Lys Ile Leu Leu Trp Ser Arg Ile
115 120 125
Lys Asp Leu Ala His Gln Phe Thr Gln Val Gln Arg Asp Met Phe Thr
130 135 140
Leu Glu Asp Thr Leu Leu Gly Tyr Leu Ala Asp Asp Leu Thr Trp Cys
145 150 155 160
Gly Glu Phe Asn Thr Ser Lys Ile Asn Tyr Gln Ser Cys Pro Asp Trp
165 170 175
Arg Lys Asp Cys Ser Asn Asn Pro Val Ser Val Phe Trp Lys Thr Val
180 185 190
Ser Arg Arg Phe Ala Glu Ala Ala Cys Asp Val Val His Val Met Leu
195 200 205

Asn Gly Ser Arg Ser Lys Ile Phe Asp Lys Asn Ser Thr Phe Gly Ser
210 215 220

Val Glu Val His Asn Leu Gln Pro Glu Lys Val Gln Thr Leu Glu Ala
225 230 235 240

Trp Val Ile His Gly Gly Arg Glu Asp Ser Arg Asp Leu Cys Gln Asp
245 250 255

Pro Thr Ile Lys Glu Leu Glu Ser Ile Ile Ser Lys Arg Asn Ile Gln
260 265 270

Phe Ser Cys Lys Asn Ile Tyr Arg Pro Asp Lys Phe Leu Gln Cys Val
275 280 285

Lys Asn Pro Glu Asp Ser Ser Cys Thr Ser Glu Ile
290 295 300

<210> 3

<211> 61

<212> DNA

<213> Hominidae

<400> 3

cgcggccgc gccccgccc cgtcccgccg ccccccggccg atcttcgccc agccaacccc 60

g

61

<210> 4

<211> 21

<212> DNA

<213> Hominidae

<400> 4

accgggtgcgc cttagtcgcc a

21

<210> 5

<211> 21

<212> DNA

<213> Hominidae

<400> 5

tagactgcat gttagacgag a

21

<210> 6

<211> 62

<212> DNA

<213> Hominidae

<400> 6

cgcggccgc gccccgccc cgtcccgccg ccccccggccg tttggaccta tgaattgtta 60

CC

62

<210> 7
<211> 21
<212> DNA
<213> Hominidae

<400> 7
gacatgctaa attgatctca g

21

<210> 8
<211> 60
<212> DNA
<213> Hominidae

<400> 8
cgccccgcgc gccccgcgcc cgtcccgccg ccccccggc cagcagaagt cactctgttc 60

<210> 9
<211> 21
<212> DNA
<213> Hominidae

<400> 9
ccattctcca gcctccgtct t

21

<210> 10
<211> 62
<212> DNA
<213> Hominidae

<400> 10
cgccccgcgc gccccgcgcc cgtcccgccg ccccccggc caagcactga ctgagtaacg 60
tc

62

<210> 11
<211> 22
<212> DNA
<213> Hominidae

<400> 11
aaactgctgg aggatggtga tt

22

<210> 12
<211> 63
<212> DNA
<213> Hominidae

<400> 12

cgccccggcgc gacccggcgcc cgtccccggc ccccccggccg ttcactgtga tatttgcAAC 60

agg

63

<210> 13

<211> 23

<212> DNA

<213> Hominidae

<400> 13

ggttgatgtt tgggggttctt tgt

23

<210> 14

<211> 64

<212> DNA

<213> Hominidae

<400> 14

cgccccggcgc gccccggcgcc cgtccccggc ccccccggccg tgtggattct tttgtggact 60

gatt

64

<210> 15

<211> 61

<212> DNA

<213> Hominidae

<400> 15

cgccccggcgc gccccggcgcc cgtccccggc ccccccggccg ttgtccaggg cgtgtacaa 60

a

61

<210> 16

<211> 21

<212> DNA

<213> Hominidae

<400> 16

agattcacac agccctccaa g

21

<210> 17

<211> 62

<212> DNA

<213> Hominidae

<400> 17

cgccccggcgc gccccggcgcc cgtccccggc ccccccggccg tttagcgaatt ggacgacaga 60

tg

62

<210> 18
<211> 22
<212> DNA
<213> Hominidae

<400> 18
tctggcattg accttattgt gg

22

<210> 19
<211> 22
<212> DNA
<213> Hominidae

<400> 19
ctccgccact ctccctgcaca ca

22

<210> 20
<211> 20
<212> DNA
<213> Hominidae

<400> 20
gggcctccag cagaagtcac

20

<210> 21
<211> 21
<212> DNA
<213> Hominidae

<400> 21
ttgtccaggg cgtgctacaa a

21

<210> 22
<211> 66
<212> DNA
<213> Hominidae

<400> 22
ttagcgaatt ggacgacaga tgtatcctac ggtcttttga tttcatttt tgctttcttg 60
tcata

66